MARINE ECOLOGY
PROGRESS SERIES

Volume 48 (1988)

Editor
Otto Kinne

Ecology Institute
Nordbünte 23 and 30, D-2124 Oldendorf/Luhe
Federal Republic of Germany

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Federal Republic of Germany

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1988

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Editorial Advisors to 'Marine Ecology – Progress Series' are appointed for a four-year period. They are expected to:

- ○ critically evaluate the scientific merits of manuscripts submitted for publication
- ○ suggest topics and authors for reviews
- ○ select and present suitable high-quality manuscripts
- ○ draw attention to new facts, concepts and methods

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ENVIRONMENTAL FACTORS

Alderdice, D., Dr
Pacific Biological Station, Nanaimo, B.C., Canada V9R 5K6
Responses to environmental factors

Dring, M. J., Dr
Botany Dept, The Queen's Univ. of Belfast, Belfast BT7 1NN, Northern Ireland
Physiological ecology of algae

Fisher, N. S., Dr
Marine Science Research Center, State Univ. of New York, Stony Brook, NY 11794-5000, USA
Physiological ecology of phytoplankton

Fowler, S. W., Dr
International Laboratory of Marine Radioactivity, Musée Océanographique, MC-98000 Monaco
Environmental effects on invertebrates

Gunkel, W., Dr
Biologische Anstalt Helgoland, D-2192 Helgoland, Federal Republic of Germany
Marine bacteriology

Haedrich, R. L., Prof.
Memorial University of Newfoundland, St. John's, Nfld., Canada A1B 3X9
Environmental effects on fishes (incl. deep sea)

Kiørboe, T., Dr
Danish Institute for Fisheries and Marine Res., Charlottenlund Castle, DK-2920 Charlottenlund, Denmark
Physiological ecology of zooplankton, including fishes (esp. larvae)

Lawrence, J. M., Prof.
Dept of Biology, Univ. of South Florida, Tampa, FL 33620, USA
Physiological ecology of invertebrates

MacLeod, R. A., Prof.
Dept of Microbiology, Faculty of Agriculture, MacDonald College, 21, 111 Lakehore Road, Ste. Anne de Bellevue, P.Q., Canada H9X 1C0
Physiological ecology of microorganisms

McLusky, D. S., Dr
Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland
Physiological ecology of invertebrates

Meyers, S. P., Prof.
Dept of Food Science, Louisiana State Univ., Baton Rouge, LA 70803, USA
Physiological ecology of microorganisms

Morita, R. Y., Prof.
Dept of Microbiology, Oregon State Univ., Corvallis, OR 97331, USA
Marine microbiology

Paasche, E., Prof.
Dept of Biology, Univ. Oslo, Marine Botany, PO Box 1069, Blindern, N-0316 Oslo 3, Norway
Physiological ecology of phytoplankton; primary production; benthic algae

Reed, R. H., Dr
The University of Dundee, Dept of Biological Sciences, Dundee DD1 3HN, Scotland
Physiological ecology of algae and cyanobacteria; osmotic stress

Rheinheimer, G., Prof.
Institut für Meereskunde, Univ. Kiel, Düsternbrooker Weg 20, D-2300 Kiel, Federal Republic of Germany
Marine microbiology

Riisgård, H. U., Dr
Odense Universitet, Biologisk Institut, Campusvej 55, DK-5230 Odense M., Denmark
Environmental effects on invertebrates; bioenergetics of suspension feeders

Sammarco, P. W., Dr
Australian Institute of Marine Science, P M B No. 3, Townsville M.C., Q. 4810, Australia
Experimental ecology; chemical ecology

Scheltema, R. S., Dr
Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA
Reproduction of benthic invertebrates

Sidell, B. D., Prof.
Dept of Zoology, Univ. of Maine at Orono, Murray Hall, Orono, ME 04469, USA
Physiological ecology and biochemistry of fishes

Southward, A. J., Dr
Plymouth Marine Laboratory, Citadel Hill, Plymouth PL1 2PB, England
Environmental effects on invertebrates

Vernberg, J., Prof.
Belle W. Baruch Institute for Marine Biol. and Coastal Res., Univ. of South Carolina, Columbia, SC 29208, USA
Physiological ecology of invertebrates

Winter, J. E., Dr
Instituto de Zoología, Univ. Austral de Chile, Casilla 567, Valdivia, Chile
Physiological ecology of invertebrates

Woodhead, D. S., Dr
Ministry of Agriculture, Fisheries and Food, Fisheries Radiobiological Lab., Hamilton Dock, Lowestoft, Suffolk NR32 1DA, England
Effects of radioactivity; behavior and distribution of radionuclides

PHYSIOLOGICAL MECHANISMS

Alderdice, D., Dr
Pacific Biological Station, Nanaimo, B. C., Canada V9R 5KR
Resistance to stress including pollution; regulation; adaptation

Batty, R. S., Dr
Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 3AD, Scotland
Behavioral physiology of fish; feeding; predation of fish larvae

Bayne, B. L., Dr
Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England
Comparative physiology

Beardmore, J. A., Prof.
Univ. College of Swansea, Dept of Genetics, Singleton Park, Swansea SA2 8PP, Wales, UK
Adaptation; selection

Bulnheim, H.-P., Prof.
Biologische Anstalt Helgoland, Notkestr. 31, D-2000 Hamburg 52, Federal Republic of Germany
Metabolic performance of invertebrates; reproductive biology and sexuality

Costlow, J. D., Jr, Prof.
Duke University Marine Laboratory, Pivers Island, Beaufort, NC 28516, USA
Developmental physiology; endocrinology

Enright, J. T., Prof.
Scripps Institution of Oceanography, San Diego, PO Box 1529, La Jolla, CA 92093, USA
Biological rhythms

Forward, R. B., Jr, Dr
Duke University Marine Laboratory Pivers Island, Beaufort, NC 28516–9721, USA
Environmental zoo-physiology; behavior; biological rhythms

Gerking, S. D., Prof.
Dept of Zoology, Arizona State Univ.,Tempe, AZ 85281, USA
Fish physiology

Holland, N. D., Prof.
Scripps Institution of Oceanography, San Diego, PO Box 1529, La Jolla, CA 92093, USA
Comparative, cellular and developmental physiology

Humphrey, G. F., Dr
CSIRO Marine Biochemistry, Building A12, Sydney Univ., N.S.W. 2006, Australia
Photosynthesis; plankton biochemistry

Levandowsky, M., Dr
Haskins Laboratories at Pace Univ., 41 Park Row, New York, NY 10038, USA
Chemosensory behavior; mathematical models

Naylor, E., Prof.
School of Animal Biology, Univ. Coll. of North Wales, Bangor, Gwynedd L57 2UW, Wales, UK
Behavioural physiology; invertebrate biology

Marinescu, A.-G., Dr
Institute of Biological Sciences, 77748 Bucharest, Str. Splaiul-Independentei 296, Romania
Stress effects on invertebrates

McLusky, D. S., Dr
Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland
Osmoregulation in estuarine invertebrates

Puiseux-Dao, S., Prof.
Laboratoire de Cytophysiologia végétale et de Toxicologie cellulaire, Université de Paris VII, 2, Place Jussieu, F-75251 Paris Cedex 05, France
Ecophysiology and toxicology of algae; cellular biology; behavior of algae

Zhirmunsky, A. V., Prof.
Institute of Marine Biology, Academy of Sciences, Vladivostok 690022, USSR
Mechanisms of cellular resistance and control

CULTIVATION

Lawrence, J. M., Prof.
Dept of Biology, Univ. of South Florida, Tampa, FL 33620, USA
Nutrition of invertebrates

Levandowsky, M., Dr
Haskins Laboratories at Pace Univ., 41 Park Row, New York, NY 10038, USA
Microcosm cultures

Meyers, S. P., Prof.
Dept of Food Science, Louisiana State Univ., Baton Rouge, LA 70803, USA
Cultivation of microorganisms and crustaceans; aquaculture; microenvironments

Paffenhöfer, G.-A., Prof.
Skidaway Institute of Oceanography, Univ. System of Georgia, PO Box 13687, Savannah, GA 31416, USA
Cultivation of zooplankton

Pandian, T. J., Prof.
School of Biological Sciences, Madurai Kamaraj Univ., Madurai 625 021, Tamilnadu, India
Cultivation of decapods and fishes; bioenergetics

Rheinheimer, G., Prof.
Institut für Meereskunde, Univ. Kiel, Düsternbrooker Weg 20, D-2300 Kiel, Federal Republic of Germany
Cultivation of microorganisms

Rosenthal, H., Dr
Biologische Anstalt Helgoland, Notkestr. 31, D-2000 Hamburg 52, Federal Republic of Germany
Cultivation of and environmental effects on fish; early life history of fish

Tseng, C. K., Prof.
Institute of Oceanology, Academia Sinica, 7 Nan-Hai Road, Qingdao, People's Republic of China
Aquaculture of seaweeds; seaweed resources; photosynthesis

Westernhagen, H. von, Dr
Biologische Anstalt Helgoland, Notkestr. 31, D-2000 Hamburg 52, Federal Republic of Germany
Cultivation of crustaceans and fishes

Wildish, D. J., Dr
Fisheries and Environmental Sciences, Biological Station, St. Andrews, N. B., Canada EOG 2X0
Bivalve aquaculture

Winter, J. E., Dr
Instituto de Zoología, Univ. Austral de Chile, Casilla 567, Valdivia, Chile
Cultivation of invertebrates

DYNAMICS

Arndt, E. A., Prof.
Wilhelm-Pieck-Universität Rostock, Sektion Biologie, Freiligrathstr. 7/8, DDR-2500 Rostock, German Democratic Republic
Ecological dynamics of brackish waters

Bak, R. P. M., Dr
Nederlands Instituut voor Onderzoek der Zee, Postbox 59, 1790 AB Den Burg – Texel, The Netherlands
Coral-reef ecology

Banse, K., Prof.
School of Oceanography, WB-10, Univ. of Washington, Seattle, WA 98195, USA
Biological oceanography; plankton research

Berman, T., Prof.
Israel Oceanographic & Limnological Research Ltd., Tel Shikmona, PO Box 8030, Haifa 31080, Israel
Phytoplankton ecology

Bianchi, A., Dr
C.N.R.S. ER 223, Microbiologie Marine, Campus de Luminy – case 907, 70, route Léon Lachamp, F-13288 Marseille Cedex 9, France
Marine microbiology; ecological dynamics

Birkeland, C., Prof.
Univ. of Guam, Marine Laboratory, UOG Station, Mangilao, Guam 96913
Coral-reef ecology; benthic ecology

Bunt, J. S., Dr
56 Cutten Street, Bingil Bay, Q. 4854, Australia
Mangrove systems; reef studies

Conover, R. J., Dr
Marine Ecology Laboratory, Bedford Institute of Oceanography, PO Box 1006, Dartmouth, N.S., Canada B2Y 4A2
Zooplankton biology, physiology, biochemistry

Cushing, D. H., Dr
Ministry of Agriculture, Fisheries and Food, Fisheries Laboratory, Lowestoft, Suffolk NR33 OHT, England
Productivity of the sea; fish-population dynamics; biological oceanography

Fenchel, T., Prof.
Marine Biological Laboratory (University of Copenhagen), DK-3000 Helsingør, Denmark
Population biology; microbial ecology

Field, J. G., Prof.
University of Cape Town, Zool. Dept, Rondebosch 7700, Republic of South Africa
Dynamics of nearshore ecosystems

Floc'h, J. Y., Dr
Lab. de Physiologie Végétale, Faculté des Sciences, Ave Victor le Gorgeau, F-29283 Brest Cedex, France
Nutrition of macroalgae

Fuhrman, J., Prof.
Marine Biology Res. Section, Dept of Biological Sciences, Univ. of Southern California, Los Angeles, CA 90089-0371, USA
Planktonic microbial ecology. Productivity and growth of microorganisms, especially bacteria

Furness, R. W., Dr
Department of Zoology, The University of Glasgow, Glasgow G12 8QQ, Scotland
Ecology of sea birds

Gage, J. D., Dr
Dunstaffnage Marine Research Laboratory, PO Box 3, Oban, Argyll PA34 4AD, Scotland
Benthos of deep sea and temperate coasts

Gerlach, S. A., Prof.
Institut für Meereskunde, Düsternbrooker Weg 20, D-2300 Kiel, Federal Republic of Germany
Benthos ecology

Golikov, A. N., Dr
Zoological Institute, Academy of Sciences, Leningrad V-164, USSR
Biocoenoses; speciation; evolution

Gray, J., Prof.
Institutt for Marinbiologi og Limnologi, Univ. Oslo, Postboks 1064, Blindern, Oslo 3, Norway
Soft-sediment ecology

Haedrich, R. L., Prof.
Memorial University of Newfoundland, St. John's, Nfld., Canada A1B 3X9
Zoogeography; natural history of fish

Harding, G. C., Dr
Marine Ecology Laboratory, Bedford Institute of Oceanography, PO Box 1006, Dartmouth, N.S., Canada B2Y 4A2
Crustacean ecology (incl. deep sea)

Harris, G. P., Dr
CSIRO Marine Laboratories, Division of Fisheries Research, Division of Oceanography, Castray Esplanade, G.P.O. Box 1538 Hobart, Tas. 7001, Australia
Phytoplankton ecology: community structure, pollution dynamics, productivity

Hessler, R. R., Dr
Scripps Institution of Oceanography, San Diego, PO Box 1529, La Jolla, CA 92093, USA
Deep-sea ecology; benthic ecology; palaeontology

Hoek, C. van den, Prof.
Biol. Centrum der Rijksuniversiteit te Groningen, Afd. Plantensystematiek, Kerklaan 30, 9750 AA Haren (Gr.), The Netherlands
Phytogeography; life cycles of algae

Holm-Hansen, O., Dr
Scripps Inst. of Oceanography, Univ. of California, La Jolla, CA 92093, USA
Polar ecology; chemical oceanography; photosynthesis

Hughes, R. N., Dr
School of Animal Biology, Univ. College North Wales, Bangor, Gwynedd LL57 2UW, Wales, UK
Ecological energetics (particularly feeding)

Kiørboe, T., Dr
Danish Institute for Fisheries and Marine Res., Charlottenlund Castle, DK-2910 Charlottenlund, Denmark
Biological oceanography; physical and biological processes in the pelagical with emphasis on copepods and fish larvae

Kühlmann, D., Dr
Museum für Naturkunde der Humboldt-Univ., Invalidenstr. 43, DDR-104 Berlin, German Democratic Republic
Coral-reef ecology; coral evolution

Landry, M. R., Dr
Dept of Oceanography, Univ. of Hawaii, Manoa, 1000 Pope Rd, Honolulu, HI 96822, USA
Food web interactions; zooplankton ecology

Lawrence, J. M., Prof.
Dept of Biology, Univ. of South Florida, Tampa, FL 33620, USA
Reproduction of invertebrates; nutrition

LeBrasseur, R. J., Dr
Pacific Biological Station, Nanaimo, B. C., Canada V9R 5K6
Feeding ecology of fishes; biological oceanography

Levandowsky, M., Dr
Haskins Laboratories at Pace Univ., 41 Park Row, New York, NY 10038, USA
Ecological modelling; phytoplankton ecology

Levings, C., Dr
West Vancouver Laboratory, 4160 Marine Drive, West Vancouver, B.C., Canada V7V 1N6
Estuarine ecology of macrobenthos and fish

Lewis, J. B., Dr
Dept of Biology, McGill Univ., Stewart Biology Bldg, 1205 Dr. Penfield, Montreal, Quebec, Canada H3A 1B1
Coral-reef ecology; tropical marine biology

Lewis, M. R., Dr
Dept of Oceanography, Dalhousie University, Halifax, N. S., Canada B3H 4J1
Biological oceanography; phytoplankton physiology; modelling of physical and biological processes

Mauchline, J., Dr
Scottish Marine Biological Ass., Dunstaffnage Marine Res. Lab., POB 3, Oban, Argyll PA34 4AD, Scotland
Deep-sea ecology; radioactive pollution

Neushul, M., Prof.
Dept of Biological Sciences, Univ. of California, Santa Barbara, CA 93106, USA
Ecology of benthos algae; marine macrophytes

Newell, S. Y., Dr
The University of Georgia, Marine Institute, Sapelo Island, GA 31327, USA
Ecology of fungi and bacteria; decomposition

Nixon, S. W., Prof.
Univ. Rhode Island, Graduate School of Oceanogr., Narragansett Bay Campus, Kingston, RI 02882-1197, USA
Coastal ecology; nutrient dynamics; wetlands; geochemistry; numerical models; mesocosms

Nybakken, J., Prof.
Moss Landing Marine Laboratories, California State Univ., PO Box 450, Moss Landing, CA 95039-0450, USA
Ecology of molluscs; community structure of soft-sediment invertebrates

Omori, M., Dr
Tokyo University of Fisheries, Research Lab. of Fisheries Resources, 4-5-7, Konan, Minato-ku, Tokyo, 108, Japan
Biological oceanography; zooplankton

Paffenhöfer, G.-A., Prof.
Skidaway Institute of Oceanography, Univ. System of Georgia, PO Box 13687, Savannah, GA 31416, USA
Zooplankton ecology

Parsons, T. R., Prof.
Dept of Oceanography, Univ. of British Columbia, 6270 University Boulevard, Vancouver, B.C., Canada V6T 1W5
Biological oceanography; mathematical modelling

Pearse, J. S., Prof.
Center for Coastal Marine Studies, Univ. of California, Santa Cruz, CA 95064, USA
Kelp forest ecology; reproductive ecology

Peterson, C. H., Prof.
Institute of Marine Science, Univ. of N. Carolina at Chapel Hill, 3407 Arendell Street, Morehead City, NC 28557, USA
Marine benthic ecology; population biology

Pichon, M., Prof.
Australian Institute of Marine Science, PMB No 3, Townsville M.C., Q. 4810, Australia
Coral-reef ecology; shallow-water tropical communities

Platt, T., Dr
Marine Ecology Laboratory, Bedford Institute of Oceanography, PO Box 1006, Dartmouth, N.S., Canada B2Y 4A2
Phytoplankton ecology; primary production

Rao, T. S. S., Dr
National Institute of Oceanography, Biol. Div., Dona Paula – 403 004, Goa, India
Biological oceanography

Reise, K., Dr
Biologische Anstalt Helgoland, D-2282 List/Sylt, Federal Republic of Germany
Benthos ecology

Sammarco, P. W., Dr
Australian Institute of Marine Science, P M B No. 3, Townsville M.C., Q. 4810, Australia
Coral-reef ecology; benthic community ecology; ecology of fishes, echinoderms, coelenterates

Savidge, G., Dr
The Queen's Univ. of Belfast, Marine Biology Station, The Strand, Portaferry, Co. Down, Northern Ireland
Phytoplankton ecology; primary production; photosynthesis

Scarlato, O., Prof.
Zoological Institute, Academy of Sciences, Leningrad, V-164, USSR
Dynamics of biocoenoses

Scheltema, R. S., Dr
Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA
Reproduction, biogeography, and evolution of benthic invertebrates

Schneider, D. C., Dr
Newfoundland Institute for Cold Ocean Science, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X7
Dynamics of large organisms; ecology of sea birds

Sherr, B. & E., Drs
The University of Georgia, Marine Institute, Sapelo Island, GA 31327, USA
Microbial food webs; trophic roles of phagotrophic protozoans

Skjoldal, H. R., Dr
Institute of Marine Research, Postboks 1870, N-5011 Bergen-Nordnes, Norway
Food webs and trophic interactions

Southward, A. J., Dr
Plymouth Marine Laboratory, Citadel Hill, Plymouth PL1 2PB, England
Rocky-coast ecosystems; deep-sea ecosystems

Stoecker, D. K., Dr
Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA
Microzooplankton, particularly ciliates; secondary production

Tenore, K. R., Prof.
Chesapeake Biological Laboratory, PO Box 38, Solomons, MD 20688-0038, USA
Benthic ecology and bioenergetics; production; food chains of detritus-based systems

Thayer, G. W., Dr
Ecosystem Structure Branch, Southeast Fisheries Center, Beaufort, NC 28516-9722, USA
Wetlands ecology, incl. submerged seagrasses and emergent marshes; production and utilization of detritus

Tseng, C. K., Prof.
Institute of Oceanology, Academia Sinica, 7 Nan-Hai Road, Qingdao, People's Republic of China
Ecology of seaweeds

Underwood, A. J., Dr
School of Biol. Sci., Univ. Sydney, Zoology Building, Sydney, N.S.W. 2006, Australia
Experimental intertidal and subtidal ecology; behavior; life cycles of sessile invertebrates

Wildish, D. J., Dr
Fisheries and Environmental Sciences, Biological Station, St. Andrews, N. B., Canada EOG 2X0
Benthic ecology; habitat assessment

Vinogradov, M. E., Prof.
P. P. Shirshov Institute of Oceanology, Academy of Sciences of USSR, 1, Letnaya (Ljublino), Moscow 109387, USSR
Oceanic plankton ecosystems; deep-sea amphipods; biological oceanography

Wangersky, P. J., Prof.
Dept of Oceanography, Dalhousie Univ., Halifax, N.S., Canada B3H 4J1
Organic matter in sea water; theoretical population dynamics; geochemistry; chemical oceanography

Warwick, R. M., Dr
Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England
Structure and functioning of benthic communities; meiofaunal ecology; energy flow

Williams, R., Dr
Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England
Plankton ecology; community structure, population dynamics

Zijlstra, J. J., Dr
Nederlands Instituut voor Onderzoek der Zee, Postbox 59, 1790 AB Den Burg – Texel, The Netherlands
Food webs; population dynamics

OCEAN MANAGEMENT

Alderdice, D., Dr
Pacific Biological Station, Nanaimo, B.C., Canada V9R 5KR
Pollution of marine environments

Bayne, B. L., Dr
Plymouth Marine Laboratory, Prospect Place, West Hoe, Plymouth PL1 3DH, England
Stress and pollution

Beardmore, J. A., Prof.
Univ. College of Swansea, Dept of Genetics, Singleton Park, Swansea SA2 8PP, Wales, UK
Genetic effects of pollution; stock improvement

Bernhard, M., Dr
ENEA, PO Box 316, I-19100 La Spezia, Italy
Radioactive and conventional pollution

Bravo de Laguna, J., Dr
Instituto Español de Oceanografia, Alcalá, 27–4^0, E-28014 Madrid, Spain
Fishery biology; stock assessment

Bryan, G. W., Dr
Plymouth Marine Laboratory, Citadel Hill, Plymouth PL1 2PB, England
Heavy metal pollution; estuarine chemistry

Eisler, R., Dr
U.S. Dept of the Interior, Fish and Wildlife Service, Laurel, MD 20708, USA
Toxicology and pollution

Fisher, N. S., Dr
Dept of Oceanography, Brookhaven National Laboratory, Upton, Long Island, NY 11973, USA
Pollutant effects on plankton; radioecology

Fowler, S. W., Dr
International Laboratory of Marine Radioactivity, Museé Océanographique, MC-98000 Monaco
Pollution effects on zooplankton; radioecology

Gray, J., Prof.
Institutt for Marinbiologi og Limnologi, Univ. Oslo, Postboks 1064, Blindern, Oslo 3, Norway
Pollution effects on benthos animals

Gulland, J. A., Dr
Marine Resources Assessment Group, Centre for Environmental Technology, Imperial College, 48 Prince's Gardens, London SW7 1LU, England
Management of fishery resources

Gunkel, W., Dr
Biologische Anstalt Helgoland, D-2192 Helgoland, Federal Republic of Germany
Oil degradation; oil pollution

Marinescu, A.-G., Dr
Institute of Biological Sciences, 77748 Bucharest, Str. Splaiul-Independentei 296, Romania
Toxicology and stress responses in invertebrates

Mauchline, J., Dr
Scottish Marine Biological Ass., Dunstaffnage Marine Res. Lab., PO Box 3, Oban, Argyll PA34 4AD, Scotland
Radioactive pollution

McLusky, D. S., Dr
Dept of Biological Sciences, Univ. Stirling, Stirling FK9 4LA, Scotland
Biological effects of pollutants (petro-, chemical, organic enrichment

Polikarpov, G. G., Prof.
Institute of Biology of South Seas, Academy of Sciences Uk. SSR, 2, Nahimov St., Sevastopol 335000, USSR
Chemical ecology, radioecology, radiotracers, pollution; protection of sea life

Riley, J. P., Prof.
Dept of Oceanography, Univ. of Liverpool, Liverpool L69 3BX, England
Marine pollution chemistry; chemical oceanography

Sherman, K., Dr
US Dept of Commerce, NOAA, Northeast Fisheries Center, South Ferry Rd, Narragansett, RI 02882, USA
Fisheries ecology; fishery resources; zooplankton

Zijlstra, J. J., Dr
Nederlands Instituut voor Onderzoek der Zee, Postbox 59, 1790 AB Den Burg – Texel, The Netherlands
Management of wadden-sea areas

MARINE ECOLOGY – PROGRESS SERIES

HISTORY: 'Marine Ecology – Progress Series' (MEPS) was established in response to requests from numerous marine ecologists from all over the world. The series is based on 'Marine Ecology' – the first comprehensive, integrated treatise on life in oceans and coastal waters – conceived, organized and edited by Professor Otto Kinne, and published by John Wiley & Sons.

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Physiological Mechanisms: Synthesis and transversion of organic material (mechanisms of auto- and heterotrophy); thermo-, ion-, osmo- and volume-regulation; stress resistance; non-genetic and genetic adaptation; population genetics; orientation in space and time; migrations; behavior.

Cultivation: Maintenance and rearing of, as well as experimentation with, marine organisms under environmental and nutritional conditions which are, to a considerable degree, controlled; analysis of the physiological and ecological potential of individuals, populations and species; determination of nutritional requirements; ecological aspects of aquaculture; water-quality management; culture technology.

Dynamics: Production, transformation, and decomposition of organic matter in marine ecosystems; food webs; trophic interrelations; population dynamics; plankton ecology; benthos ecology; estuarine and coastal ecology; wadden-sea ecology; coral-reef ecology; deep-sea ecology; open-ocean ecology; polar ecology; theoretical ecology; ecological modelling.

Ocean Management: Applied marine field ecology; inventory, protection and management of living resources in coastal areas, estuaries and open oceans; ecological aspects of fisheries; pollution of marine areas and organisms; protection of life in the seas; management of populations, species and ecosystems; management of coastal zones and sea areas.

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Manuscript Preparation, Mailing and Processing

Preparation

Research articles (in general not exceeding 10 printed pages), reviews (up to 30 printed pages) and notes (1 to 3 printed pages) must be typewritten with double spacing. 'Marine Ecology – Progress Series' invites interpretative rather than descriptive contributions. Reviews should be critical, instructive evaluations of the state-of-the-art – not mere compilations of information.

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